

Untitled.ST25.txt
SEQUENCE LISTING

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Luigi, Grasso
Roy, Levitt
Nicolaides, Nicholas

<120> Asthma Associated Factors as Targets for Treating Atopic Allergies
and
Related Disorders

<130> LUD 5501.1CON

<140> Not Yet Assigned

<141> 2002-02-08

<150> 09/157,247

<151> 1998-09-18

<150> 60/059,509

<151> 1997-09-19

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<170> PatentIn version 2.0

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<211> 1119

<212> DNA

<213> Murinae gen. sp.

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<221> CDS

<222> (19)..(642)

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Pro Thr Tyr Lys Leu Val Val Val Gly Asp Gly Gly Val Gly Lys Ser	
15 20 25	
gcg ctc act att cag ttt ttc cag aag atc ttt gtg cct gac tac gac	147
Ala Leu Thr Ile Gln Phe Phe Gln Lys Ile Phe Val Pro Asp Tyr Asp	
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ccc acc att gaa gac tcc tac ctg aag cat aca gag att gac aat cag	195
Pro Thr Ile Glu Asp Ser Tyr Leu Lys His Thr Glu Ile Asp Asn Gln	
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tgg gcc atc ttg gat gtt ctg gac aca gcc ggg cag gag gag ttc agt	243
Trp Ala Ile Leu Asp Val Leu Asp Thr Ala Gly Gln Glu Glu Phe Ser	
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gcc atg cgg gaa caa tac atg cgc aca ggg gat ggc ttc ctc att gtc	291
Ala Met Arg Glu Gln Tyr Met Arg Thr Gly Asp Gly Phe Leu Ile Val	
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 Tyr Ser Val Thr Asp Lys Ala Ser Phe Glu His Val Asp Arg Phe His
 95 100 105

cag ctc att ctg cgt gtc aag gac agg gag tca ttc cca atg atc ctc 387
 Gln Leu Ile Leu Arg Val Lys Asp Arg Glu Ser Phe Pro Met Ile Leu
 110 115 120

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 Val Ala Asn Lys Val Asp Leu Met His Leu Arg Lys Val Thr Arg Asp
 125 130 135

caa gga aaa gaa atg gca acc aaa tac aat atc cca tat ata gag acc 483
 Gln Gly Lys Glu Met Ala Thr Lys Tyr Asn Ile Pro Tyr Ile Glu Thr
 140 145 150 155

agt gcc aag gac ccg cct ctc aac gtg gat aaa acc ttc cat gac cta 531
 Ser Ala Lys Asp Pro Pro Leu Asn Val Asp Lys Thr Phe His Asp Leu
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gtt aga gta att agg caa cag gtt cca gag aaa aac cag aag aag aaa 579
 Val Arg Val Ile Arg Gln Gln Val Pro Glu Lys Asn Gln Lys Lys Lys
 175 180 185

aag aag aca aaa tgg cga gga gac agg gcc acc ggc act cac aaa ctg 627
 Lys Lys Thr Lys Trp Arg Gly Asp Arg Ala Thr Gly Thr His Lys Leu
 190 195 200

cag tgt gtc atc ttg tgacagcctg aagccctggg catagcaacc gtgaactgcc 682
 Gln Cys Val Ile Leu
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atggaagtgc ttaccacat acaacgcacc agacaagcca tgagcaagct tcctccctgt 982

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 35 40 45
 Ser Tyr Leu Lys His Thr Glu Ile Asp Asn Gln Trp Ala Ile Leu Asp
 50 55 60
 Val Leu Asp Thr Ala Gly Gln Glu Glu Phe Ser Ala Met Arg Glu Gln
 65 70 75 80
 Tyr Met Arg Thr Gly Asp Gly Phe Leu Ile Val Tyr Ser Val Thr Asp
 85 90 95
 Lys Ala Ser Phe Glu His Val Asp Arg Phe His Gln Leu Ile Leu Arg
 100 105 110
 Val Lys Asp Arg Glu Ser Phe Pro Met Ile Leu Val Ala Asn Lys Val
 115 120 125
 Asp Leu Met His Leu Arg Lys Val Thr Arg Asp Gln Gly Lys Glu Met
 130 135 140
 Ala Thr Lys Tyr Asn Ile Pro Tyr Ile Glu Thr Ser Ala Lys Asp Pro
 145 150 155 160
 Pro Leu Asn Val Asp Lys Thr Phe His Asp Leu Val Arg Val Ile Arg
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gtc ccc agt gac aac ctc ccc aca tac aag ctg gtg gtg gtg ggg gat 164
 Val Pro Ser Asp Asn Leu Pro Thr Tyr Lys Leu Val Val Val Gly Asp
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ggg ggt gtg ggc aaa agt gcc ctc acc atc cag ttt ttc cag aag atc 212
 Gly Gly Val Gly Lys Ser Ala Leu Thr Ile Gln Phe Phe Gln Lys Ile
 25 30 35

ttt gtg cct gac tat gac ccc acc att gaa gac tcc tac ctg aaa cat 260
 Phe Val Pro Asp Tyr Asp Pro Thr Ile Glu Asp Ser Tyr Leu Lys His
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acg gag att gac aat caa tgg gcc atc ttg gac gtt ctg gac aca gct 308
 Thr Glu Ile Asp Asn Gln Trp Ala Ile Leu Asp Val Leu Asp Thr Ala
 55 60 65

ggg cag gag gaa ttc agc gcc atg cgg gag caa tac atg cgc acg ggg 356
 Gly Gln Glu Glu Phe Ser Ala Met Arg Glu Gln Tyr Met Arg Thr Gly
 70 75 80 85

gat ggc ttc ctc atc gtc tac tcc gtc act gac aag gcc agc ttt gag 404
 Asp Gly Phe Leu Ile Val Tyr Ser Val Thr Asp Lys Ala Ser Phe Glu
 90 95 100

cac gtg gac cgc ttc cac cag ctt atc ctg cgc gtc aaa gac agg gag 452
 His Val Asp Arg Phe His Gln Leu Ile Leu Arg Val Lys Asp Arg Glu
 105 110 115

tca ttc ccg atg atc ctc gtg gcc aac aag gtc gat ttg atg cac ttg 500
 Ser Phe Pro Met Ile Leu Val Ala Asn Lys Val Asp Leu Met His Leu
 120 125 130

agg aag atc acc agg gag caa gga aaa gaa atg gcg acc aaa cac aat 548
 Arg Lys Ile Thr Arg Glu Gln Gly Lys Glu Met Ala Thr Lys His Asn
 135 140 145

att ccg tac ata gaa acc agt gcc aag gac cca cct ctc aat gtc gac 596
 Ile Pro Tyr Ile Glu Thr Ser Ala Lys Asp Pro Pro Leu Asn Val Asp
 150 155 160 165

aaa gcc ttc cat gac ctc gtt aga gta att agg caa cag att ccg gaa 644
 Lys Ala Phe His Asp Leu Val Arg Val Ile Arg Gln Gln Ile Pro Glu
 170 175 180

aaa agc cag aag aag aag aag aaa acc aaa tgg cgg gga gac cgg gcc 692
 Lys Ser Gln Lys Lys Lys Lys Thr Lys Trp Arg Gly Asp Arg Ala
 185 190 195

aca ggc acc cac aaa ctg caa tgt gtg atc ttg tgaggcctgc aggccctgaag 745
 Thr Gly Thr His Lys Leu Gln Cys Val Ile Leu
 200 205

gcctcgggca cagtgcgggt ggcctggcca gccctcggga cccctcccca cctaactgca 805
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 ccttcttcaa aagagacaag ggaaggccac ctgttaaagc aggaagcagc atcaagttgc 985
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Phe Phe Gln Lys Ile Phe Val Pro Asp Tyr Asp Pro Thr Ile Glu Asp
 35 40 45

Ser Tyr Leu Lys His Thr Glu Ile Asp Asn Gln Trp Ala Ile Leu Asp
 50 55 60

Val Leu Asp Thr Ala Gly Gln Glu Glu Phe Ser Ala Met Arg Glu Gln
 65 70 75 80

Tyr Met Arg Thr Gly Asp Gly Phe Leu Ile Val Tyr Ser Val Thr Asp
 85 90 95

Lys Ala Ser Phe Glu His Val Asp Arg Phe His Gln Leu Ile Leu Arg
 100 105 110

Val Lys Asp Arg Glu Ser Phe Pro Met Ile Leu Val Ala Asn Lys Val
 115 120 125

Asp Leu Met His Leu Arg Lys Ile Thr Arg Glu Gln Gly Lys Glu Met
 130 135 140

Ala Thr Lys His Asn Ile Pro Tyr Ile Glu Thr Ser Ala Lys Asp Pro
 145 150 155 160

Pro Leu Asn Val Asp Lys Ala Phe His Asp Leu Val Arg Val Ile Arg
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 180 185 190

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 195 200 205

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Lys Leu Gln

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<400> 7
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Asp Pro Thr Ile Glu Asp Ser Tyr Arg Lys Gln Val Val Ile Asp Gly
35 40 45
Glu Thr Cys Leu Leu Asp Tyr Leu Asp Thr Ala Gly Gln Glu Glu Tyr
50 55 60
Ser Ala Met Arg Asp Gln Tyr Met Arg Tyr Gly Glu Gly Phe Leu Cys
65 70 75 80
Val Phe Ala Ile Asn Asn Thr Lys Ser Phe Glu Asp Ile His Gln Tyr
85 90 95
Arg Glu Gln Ile Lys Arg Val Lys Asp Ser Asp Asp Val Pro Met Val
100 105 110
Leu Val Gly Asn Lys Cys Asp Leu Ala Ala Arg Thr Val Glu Ser Arg
115 120 125
Gln Ala Gln Asp Leu Ala Arg Ser Tyr Gly Ile Pro Tyr Ile Glu Thr
130 135 140
Ser Ala Lys Thr Arg Gln Gly Val Glu Asp Ala Phe Tyr Thr Leu Val
145 150 155 160
Arg Glu Ile Arg Gln His Lys Leu Arg Lys Leu Asn Pro Pro Asp Glu
165 170 175
Ser Gly Pro Gly Cys Met Ser Cys Lys Cys Val Leu Ser
180 185

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<212> PRT
<213> R-Ras

<400> 17

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Val	Val	Val	Gly	Gly	Gly	Gly	Val	Gly	Lys	Ser	Ala	Leu	Thr	Ile	Gln	35	40	45	
Phe	Ile	Gln	Ser	Tyr	Phe	Val	Ser	Asp	Tyr	Asp	Pro	Thr	Ile	Glu	Asp	50	55	60	
Ser	Tyr	Thr	Lys	Ile	Cys	Thr	Val	Asp	Gly	Ile	Pro	Ala	Arg	Leu	Asp	65	70	75	80
Ile	Leu	Asp	Thr	Ala	Gly	Gln	Glu	Glu	Phe	Gly	Ala	Met	Arg	Glu	Gln	85	90	95	
Tyr	Met	Arg	Ala	Gly	Asn	Gly	Phe	Leu	Leu	Val	Phe	Ala	Ile	Asn	Asp	100	105	110	
Arg	Gln	Ser	Phe	Asn	Glu	Val	Gly	Lys	Leu	Phe	Thr	Gln	Ile	Leu	Arg	115	120	125	
Val	Lys	Asp	Arg	Asp	Asp	Phe	Pro	Ile	Val	Leu	Val	Gly	Asn	Lys	Ala	130	135	140	
Asp	Leu	Glu	Asn	Gln	Arg	Gln	Val	Leu	Arg	Ser	Glu	Ala	Ser	Ser	Phe	145	150	155	160
Ser	Ala	Ser	His	His	Met	Thr	Tyr	Phe	Glu	Ala	Ser	Ala	Lys	Leu	Arg	165	170	175	
Leu	Asn	Val	Asp	Glu	Ala	Phe	Glu	Gln	Leu	Val	Arg	Ala	Val	Arg	Lys	180	185	190	
Tyr	Gln	Glu	Gln	Glu	Leu	Pro	Pro	Ser	Pro	Pro	Ser	Ala	Pro	Arg	Lys	195	200	205	
Lys	Asp	Gly	Gly	Cys	Pro	Cys	Val	Leu	Leu							210	215		